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Office Memorandum • UNITED STATES GOVERNMENT

25X1

TO : [redacted] #8 WE 29 aug

DATE: 17 August 1953

file: Burial Packaging

FROM : [redacted] 25X1

SUBJECT: This looks very interesting and will be followed up. However, I do not believe that we can get the best material unless [redacted] knows what is its intended purpose. I have seen samples of fusion lamination and it seems excellent. 25X1

I will get security questionaires to [redacted] 25X1

to get [redacted] cleared. Pete says he is a "square shooter." 25X1

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ORIG COMP 05 OPI 53 TYPE 02
ORIG CLASS M PAGES 5 REV CLASS
JUST NEXT REV AUTH: HR 70-2

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August 11, 1955

Chief of Ordnance
Department of the Army
Pentagon Building
Washington 25, D. C.

Re: Specification
MIL-B-13238 (Ord)

Attention: [redacted] 25X1
ORDB Materials Unit

Dear Sir:

As a result of conversations with Messrs. [redacted] 25X1
and [redacted] of the Office Chief of Ordnance, the 25X1
Wyndmoor Manufacturing Corporation has reviewed the requirements of specification MIL-B-13238 (Ord) and examined a representative sample of the material furnished by [redacted] 25X1
It was noted that the material was quite rigid and difficult to heat seal plus obvious delamination. It is therefore apparent that it would be extremely difficult to form a proper package with this material.

Recently our Company developed a new laminating machine on which one can manufacture multiple plies of materials through a fusion process that eliminates all adhesives, consequently, the danger of delamination is eliminated.

Realizing that a Barrier Material constructed without the use of adhesives is of interest to the Military Services we have enclosed a description of what can be manufactured. The Physical requirements of MIL-B-13238 (Ord) can be maintained and yet possess low temperature, heat sealibility and flexibility characteristics which are not obtainable by the material described in the present specification and as witness by the representative sample.

It is estimated that the cost involved in the development of subject material including delivery of approx. 100 yards for practical testing will be $15,000. Should such a proposal as enclosed herewith be of interest to your activity, it can be completed within a four (4) month period.

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In addition should these materials prove satisfactory, the Wyndmoor Manufacturing Corporation will deliver any quantity desired from 2,000 yards upwards at a price not to exceed 43 cents per square foot and in widths of 48 inches minimum and potential maximum width of 54 inches. We have estimated the present material (representative sample) will cost the government approximately 50 cents per square foot.

Sincerely yours,

Morris J. Stern
Secretary

mjs/ms
Enc.

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PROPOSAL:

1. The Wyndmoor Manufacturing Corporation proposes to manufacture a barrier material through the employment of a fusion process from which the following objectives will be achieved:

a. the elimination of all adhesives, and

b. the retaining of all film properties, which are sometimes lost through other processes of fabrication.

2. There are two (2) methods in securing the end result. If it is determined that:

a. an extremely high moisture-vapor transmission (MVT) rating is required, we will use as the barrier material, multi-fused films of polyethylene sufficient of meeting the requirements of the specification.

b. less MVT rating is satisfactory and only a water impermen-- ability is required we would then use multiple films of vinyl, to which will be added one or more plys of a suitable "Nylon" of "Fiber thin" to afford the degree of reinforcing as necessary.

3. Through the above fabrication it will also be noted that we have proposed to eliminate the use of aluminum foil. It is our opinion that aluminum foil contributes to:

a. The lack of adhesion between plies

b. the transmission of moisture because of its inherent characteristic to pin hole when formed around a package.

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4. Without the use of aluminum foil, we can maintain a constant MVT or water resistance as desired and also obtain a permanent heat seal, strength and integrity of film. In addition, as is well known to those who are skilled in the art, our proposed use of heavier gages of vinyl over the one (1) mil which is used for heat sealing the present material, we will vastly increase the seam strength, consequently any inexperienced operator using suitable equipment can effect a positive heat seal.

5. We believe that a material having greater flexibility, heat sealability on one or both sides (as desired), and having better cold temperature characteristics than that which was obtained in the representative sample, can be produced at a lower cost and still conform to all the physical requirements of the referenced specification. In addition, due tothe construction of our proposed material a greater storage life will be obtained, e.i., no delamination, loss of flexibility, etc.

Sincerely yours,

Morris J. Stern

mjs/ms

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